Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0008 Sacramento Maintenance Yard	Overall LMA Rating	Total LMA Miles						
Sacramento Bypass	Α	3.51						_
Rated Item		Maintena	nce Deficiancy		Enforcement		Design & System Obsolescence	
Nateu item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee						ı	T	
Encroachments					0.02			
Supplemental DWR UCIP Field Study					0.11			
LMA Totals:	0.00	0.00	0.00	0.00%	0.11	0.00	0.00	0.00
LIMA TOTALS.	0.00	0.00	0.00	0.00%	0.13	0.00	0.00	0.00
Unit No. 01 Sacramento Bypass or North Levee RB	Overall Unit Rating	Total Unit Miles						
ST0008	Α	1.73						
5 / 10		Maintena	nce Deficiancy		Enforc	ement	Design 8 Obsole	k System
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Encroachments					0.01			
Supplemental					2.22		I	
DWR UCIP Field Study					0.09			
Unit Totals:	0.00	0.00	0.00	0.00%	0.10	0.00	0.00	0.00
Unit No. 02 Sacramento Bypass or South Levee LB	Overall Unit Rating	Total Unit Miles						
ST0008	A	1.78						
5		Maintena	nce Deficiancy		Enforc	ement	Design & Obsole	k System scence
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Encroachments					0.01			
Supplemental								
DWR UCIP Field Study					0.02			
Unit Totals:	0.00	0.00	0.00	0.00%	0.03	0.00	0.00	0.00

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)			A					
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.								
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.								
<u>FALL INSPECTIONS:</u> The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.								
Comments								

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	-		10/15/2013 - 10/15/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Casey Lund Sacramento Maintenance Yard		Casey Lund Sacramento Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

LMR No.	Levee	Mile	Category	Item	Location	Rating ** +	Action/Comment	GPS Latitude	e/Longitude End	Issue No. Photo
1			Earthen Levee	Operations & Maintenance Manuals		A Ma		0	0	ŭ
								DWR ID: DWR_STO)008_01_s _ 2013_	_3
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		o O DWR ID: DWR_STO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		o o DWR ID: DWR_STG	0	5
4	0.04	1.73	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.607017 ° -121.560548 ° -′ DWR ID: DWR_STO	121.590072 °	Υ
5	0.44	1.73	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.604832 ° -121.567445 ° -′ DWR ID: DWR_STO		Υ
6	0.46	0.46	Earthen Levee	Slope Stability	LS	A/W Ma	S1 : Repair slope instability.	38.604712 ° -121.567738 ° -'	121.567738°	Υ
7	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6414 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602180 ° -121.579130 ° -1	38.602180 ° 121.579130 °	1
8	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6413 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised).	DWR ID: DWR_STO 38.602180 ° -121.579130 ° -4	38.602180 °	2

LS : Land Side WS : Water Side CR : Crown

* Location

Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

FS Date: 10/4/2012

+ Issue Type Ma : Mainter

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement DWR ID: DWR_ST0008_01_f _ 2013_2

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

			_			_			71-			
	Waterway							Bank	Unit Miles	Inspection Start/End	Inspec	ctor
	Unit No. 01 Sacramento Bypass or North Levee						Right	1.73	10/15/2013 10/15/2013			
LMR	Levee	Mile	Category	Category Item * Property Action/Comment				GPS Latitud	e/Longitude	No.		
No.	Start	End	- and going							Start	End	Photo
9												

pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012

DWR ID: DWR_ST0008_01_f _ 2013_6 38.602180 ° 38.602180 °

-121.579130 ° -121.579130 °

1.14 1.14 Supplemental DWR UCIP Field Study

Inspector Comments: FS_ID:12703 LS M

EP NO: 13616

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: After more investigation depressions are from water run off. erosion repair needed FIELD_STRUCT_DESC: 1 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento

Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 5/7/2013 9:09:11 AM

> DWR ID: DWR_ST0008_01_f _ 2013_7 38.602130 ° 38.602130 °

-121.579130 ° -121.579130 °

11 1.14 1.14 Supplemental DWR UCIP

Field Study

LS M Inspector Comments: FS_ID:6384

EP_NO: 13616

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet

structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012

DWR ID: DWR ST0008 01 f 2013 8

Location LS: Land Side WS: Water Side CR : Crown

Rating

Minimally Acceptable U: Unacceptable

N : Not Inspected/Rated Corrected : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

						_			<i>J</i> 1			
	Waterway						Bank	Unit Miles	Inspection Start/End		ctor	
	Unit No. 01 Sacramento Bypass or North Levee						Right	1.73	10/15/2013 10/15/2013			
LMR	Levee	Mile	Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude		Issue No.
No.	Start	End	Calegory	пеш	tion	ng +	Action/Comment			Start	End	Photo
12	1.14	1.14	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6382 EP_NO: 13616		-	38.602130 ° 121.579130 °	38.602130 ° -121.579130 °	

Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Air vent exposed horizontally in
waterside slope. Green vegetation and depressions found
on waterside slope. More investigation required.
FIELD_STRUCT_DESC: 1 of 2. A agricultureal drainage
pumping system with 24-inch and 20-inch steel discharge
pipelines through the north levee of the Sacramento
Bypass. The pipe is 6.33 ft below the crown and a siphon
breaker on the WS. Vertical GI pipe trash rack on inlet
structure. Application no. 13616, 1995 (revised).
FS Date: 10/4/2012

DWR ID: DWR_ST0008_01_f_2013_9

Inspector Comments: FS_ID:6383

38.602128 ° 38.602128 ° 16.602128 ° 18.602128 °

1.14 1.14 Supplemental DWR UCIP LS M -121.579146 ° -121.579146 ° Field Study EP NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. FIELD STRUCT DESC: 2 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012 DWR ID: DWR_ST0008_01_f _ 2013_10

14 1.14 1.14 Supplemental DWR UCIP Field Study

LS M Inspector Comments: FS_ID:6445

En EP_NO: 13616
Repair Type: Non-Urgent
Crossing Status: Found

UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on

waterside slope.
FIELD_STRUCT_DESC: 2 of 2. A agricultureal drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised).

FS Date: 10/4/2012

DWR ID: DWR_ST0008_01_f _ 2013_11

38.602128 ° 38.602128 °

-121.579150 ° -121.579150 °

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected W : Acceptable but Monitor & Maintain + Issue Type
Ma : Mainte

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

38.601947 ° 38.601947 °

DWR ID: DWR_ST0008_01_f _ 2013_16

-121.579838 ° -121.579838 °

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

	Waterway							Inspection Start/End	Inspec	ctor
	Unit No.	. 01 Sacrame	Right	1.73	10/15/2013 10/15/2013	Johr William				
Levee Mile Start End	Category	Item	Location *	Rating	Action/Comment			GPS Latitude	e/Longitude End	Issue No. Photo
¹⁵ 1.14 1.14	Supplementa	al DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:12705 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on Green vegetation and depressions also waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agric pumping system with 24-inch and 20-inc pipelines through the north levee of the si Bypass. The pipe is 6.33 ft below the cro breaker on the WS. Vertical GI pipe tras structure. Application no. 13616, 1995 (i FS Date: 5/7/2013 9:12:36 AM	found on ultureal dr th steel di Sacramer own and a h rack on	e slope. rainage scharge nto a siphon	38.602128 ° 121.579150 ° -		
								DWR ID: DWR SI/	JUU8 UT † 2013	13

DE: Debris

En

1.14 1.14 Earthen

Levee

Encroachments CR M

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	4					
Start Levee Mile	0.04					
End Levee Mile	1.73					
Location	Land Side					
Category	Earthen Levee					
Item	Vegetation					
The levee has been burned and the new vegetation is starting to grow. Fall 2013						

johngw_f_20131021_138.JPG

Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The levee has been burned and the new vegetation has begun to grow. Fall 2013

johngw_f_20131021_139.JPG

Levee Mile Report Line	6				
Start Levee Mile	0.46				
End Levee Mile	0.46				
Location	Land Side				
Category	Earthen Levee				
Item	Slope Stability				
T					

The area has been resloped and complies with standards. Fall 2013

johngw_f_20131021_140.JPG







* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected VW : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	8			
Start Levee Mile	1.14			
End Levee Mile	1.14			
Location	Crown			
Category	Supplemental			
Item	DWR UCIP Field Study			
Landside view: pumping plant overview				
UCIP_2819.jpg				

Levee Mile Report Line	16			
Start Levee Mile	1.14			
End Levee Mile	1.14			
Location	Crown			
Category	Earthen Levee			
Item	Encroachments			
Prunings and furniture are left on the levee crown. Fall 2013				

johngw_f_20131021_141.JPG





Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles
Unit No. 02 Sacramento Bypass or South Levee	Left	1.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	-		10/15/2013 - 10/15/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Casey Lund Sacramento Maintenance Yard		Casey Lund Sacramento Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.78	10/15/2013 10/15/2013	John Williamson

	Offiction by pass of Countries Count			10/15/2013	William	ison						
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment	Action/Comment ——		GPS Latitude	e/Longitude End	Issue No. Photo
1	0.01	1.76	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on and easements.	the levee		38.602773 ° -121.555775 ° -′ DWR ID: DWR_STO		Υ
2	1.19	1.19	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6408 EP_NO: 11826 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vertical GI pipe trash of structure; trash rack is falling apart and fig pumping plant with 5 pipes. FIELD_STRUCT_DESC: A 36-inch drain the levee, 2.0 feet below the crown. A structure and pump house on the landware vertical pump. A siphon breaker located pipe near the LS of the levee. A flapgate discharge end of the pipe. (App. No. 118 10/76. FS Date: 10/4/2012	ound in the sage pipe per pipe per pipe per pipe per per pipe per pipe per per per pipe per p	et ne water. through ump ith a ex of the on the	38.597544° -121.576620° -′	38.597544° 21.576620°	
3	1.19	1.19	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6441 EP_NO: 11826 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vertical GI pipe trash of structure; trash rack has fallen apart and water. Big pumping plant with 5 pipes. FIELD_STRUCT_DESC: A 36-inch drain the levee, 2.0 feet below the crown. A structure and pump house on the landward vertical pump. A siphon breaker located pipe near the LS of the levee. A flapgate discharge end of the pipe. (App. No. 118 10/76. FS Date: 10/4/2012	found in hage pipe heel pipe p hard side w on the ap installed	et through ump ith a ex of the on the	DWR ID: DWR_ST() 38.597544 ° -121.576621 ° -4	38.597544 ° 21.576621 °	2
4	1.76	1.76	Earthen Levee	Encroachments	LS	M En	PR : Prunings			38.594777 ° -121.586525 ° -′ DWR ID: DWR_STO		Υ

Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.78	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	1			
Start Levee Mile	0.01			
End Levee Mile	1.76			
Location	Land Side			
Category	Earthen Levee			
Item	Vegetation			
The levee has no unwanted vegetation, Fall 2013				

The levee has no unwanted vegetation. Fall 2013

johngw_f_20131021_142.JPG

Levee Mile Report Line	2
Start Levee Mile	1.19
End Levee Mile	1.19
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Landside view: overview of the pumping plant

UCIP_2809.jpg

Levee Mile Report Line	4
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The never ending pruning pile at the end of the unit. Fall 2013

johngw_f_20131021_144.JPG







Location LS: Land Side WS : Water Side CR : Crown

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement